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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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	INTERNATIO	NAL PRELIMINARY	Z EXAMIN	ATION REPORT	C
		(PCT Article 36 an	ıd Rule 70)		
Applicant's or agent's f	1	FOR FURTHER ACTION		cation of Transmit Examination Report (	
International applicatio PCT/EP200		international filing date (day) 20 August 2003 (20.		Priority date (day/m) 06 September 2	
International Patent Cla	assification (IPC) or nati	ional classification and IPC		oo september 2	2002 (00.07.20
C08G 61/00,	C09K 11/06				
Applicant					
Applicant	COVION	ORGANIC SEMICO	NDUCTORS	GMBH	
1. This internation	onal preliminary examina	ation report has been prepare	ed by this Inter	national Preliminary E	xamining Authori
	tted to the applicant acco	-			
2. This REPORT	2. This REPORT consists of a total of4 sheets, including this cover sheet.				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have be amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Ru					
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT



# PCT/EP2003/009199

I. Basis	of the rep	port				
1. With	regard to	the elements of the international application:*				
	the international application as originally filed					
$\overline{\boxtimes}$	the desc	ription:	<b>!</b>			
	pages	1-22	, as originally filed			
	pages		, filed with the demand			
	pages	, filed with the letter of				
$\boxtimes$	the clair	ms:				
	pages	1-6, 8-18	, as originally filed			
	pages		with any statement under Article 19			
	pages		, filed with the demand			
	pages	7 , filed with the letter of	04 August 2004 (04.08.2004)			
	the drav	vinos·				
	pages	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, as originally filed			
	pages		, filed with the demand			
	pages	, filed with the letter of				
	41					
	•	nce listing part of the description:	an anisimally filed			
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1	pages	, filed with the letter of				
3. Wif	the land the	to any nucleotide and/or amino acid sequence disclosed in the internate examination was carried out on the basis of the sequence listing: need in the international application in written form.  ogether with the international application in computer readable form. hed subsequently to this Authority in written form. hed subsequently to this Authority in computer readable form. Statement that the subsequently furnished written sequence listing does not ational application as filed has been furnished.  statement that the information recorded in computer readable form is identical furnished.	which is: ale 23.1(b)).  examination (under Rule 55.2 and/ tional application, the international tional application the international			
in and	This r beyon placementhis report 70.17).	the description, pages the claims, Nos the drawings, sheets/fig eport has been established as if (some of) the amendments had not been made, sid the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**  t sheets which have been furnished to the receiving Office in response to an invite ort as "originally filed" and are not annexed to this report since they do not ment sheet containing such amendments must be referred to under item 1 and annexed.	ation under Article 14 are referred to ot contain amendments (Rule 70.16			
	-	ment sheet containing such amendments must be referred to under item 1 and annu	exed to this report.			

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

· ·	
Internal	application No.
PCT/EP	03/09199

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-18	YES
		Claims		NO
	Inventive step (IS)	Claims	1-18	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-18	YES
		Claims		NO

#### 2. Citations and explanations

### 1. PCT Article 33(2):

The present application claims a method for the C-C coupling of aromatic and heteroaromatic halogen compounds (claim 1), the production of the catalyst system (claim 8) and the polymers produced with the catalyst (claim 18).

D1 does not disclose the use of two different ligands in the method for C-C coupling. D2 likewise uses only one ligand - triphenylphosphine. D3 uses the complex in stoichiometric amounts and without reducing agents.

Consequently, the subject matter of claims 1-18 is novel.

## 2. PCT Article 33(3):

D1 is considered to be the closest prior art, because that method for C-C coupling includes all the technical features except one. The difference between the present application and D1 is the use of a different ligand system. The objective technical problem is therefore that of providing alternative methods for the C-C coupling of aromatic and heteroaromatic halogen compounds. Since the cited

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literature contains no hints that the special ligand system allows the coupling in high yields and the products obtained have a very low metal content, the subject matter of claims 1 -18 involves an inventive step.